

**Product Name:** Ketotifen fumarate

**Catalog No.:** 0784

**Batch No.:** 7

CAS Number: 34580-14-8

EC Number: 252-100-0

IUPAC Name: 4,9-Dihydro-4-(1-methyl-4-piperidinylidene-10*H*-benzo[4,5]cyclohepta[1,2-*b*]thiophen-10-one fumarate

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>19</sub>NOS.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

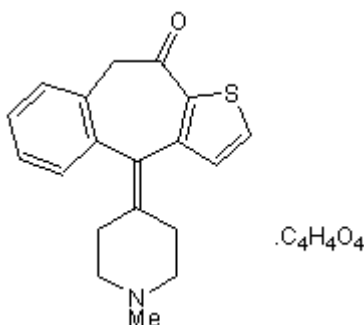
**Batch Molecular Weight:** 425.5

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.92	5.45	3.29
Found	64.76	5.47	3.27

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**Product Name:** Ketotifen fumarate

**Catalog No.:** 0784

**Batch No.:** 7

CAS Number: 34580-14-8

EC Number: 252-100-0

IUPAC Name: 4,9-Dihydro-4-(1-methyl-4-piperidinylidene-10*H*-benzo[4,5]cyclohepta[1,2-*b*]thiophen-10-one fumarate

**Description:**

An H<sub>1</sub> receptor antagonist.

**Physical and Chemical Properties:**

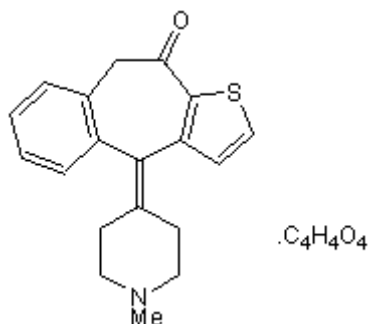
Batch Molecular Formula: C<sub>19</sub>H<sub>19</sub>NOS.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

Batch Molecular Weight: 425.5

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

Merck Index 5319.

**Martin and Römer** (1978) The pharmacological properties of a new orally active antianaphylactic compound: ketotifen, a benzocycloheptathiophene. *Arzneimittelforschung* **28** 770. PMID: 35171.

**Abu-Dalu et al** (1996) The actions of ketotifen on intestinal smooth muscles. *Eur.J.Pharmacol.* **309** 189. PMID: 8874138.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&D Systems company

USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373

[www.RnDSystems.com](http://www.RnDSystems.com)